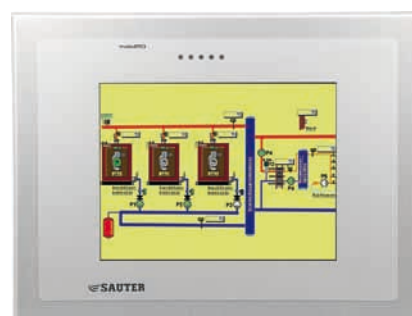


SAUTER EY-modulo 2 Touch Panel modu250

User's Manual

7010060003 A



Content

1	General information	5
1.1	Safety information	5
1.2	Area of use	5
2	Important notes for use	7
2.1	Used abbreviations	7
2.2	Further documentation	7
2.3	Accessories	7
2.4	Training at Sauter	7
3	User Interface and operation	9
3.1	Operation	9
3.2	LED indicators	10
4	Overview	11
4.1	Introduction	11
4.2	Installation	11
4.3	Connections	12
4.4	Light-emitting diodes	12
4.5	Configuration	13
5	Start screen	15
5.1	Main menu	15
5.2	Login, logout	16
5.2.1	Login and enter password	17
5.2.2	Change password	18
6	Applications	21
6.1	Application list	21
6.2	Select an application	21
7	Standard application	23
7.1	Data points	23
7.1.1	View data-point list	23
7.1.2	Change command or value from data-point list	24
7.2	Alarms	26
7.2.1	Visualise alarm list	26
7.3	Time programs and calendar	27
7.3.1	Data points for time programs	27
7.3.2	Time program for days of the week	28
7.3.3	Time program entry	29
7.3.4	Time program for special days	30
7.3.5	Send time programs	31
7.3.6	Calendar	31
7.4	Historical data	33

Content

8	Settings	39
8.1	Calibration	39
8.2	Reboot	41
8.3	System information	41
8.4	Other settings	42
8.5	Display parameters	43
8.6	Clock	44
8.7	Profile	45
8.7.1	Password time-out	46
8.7.2	Create new user profile	46
8.7.3	Delete or edit user profile	49
8.8	Filters	49
	Abbildungen	53
	Index	55

1 General information

1.1 Safety information



Incorrect installation

Possible injury, fire, damage to equipment

- ▶ For the operation of this device read this manual.
- ▶ For the installation of this device read the fitting instructions.

1.2 Area of use

The modu250 is a touch-panel with colour or monochrome display for visualising and operating automation station data points of the line SAUTER EY-modulo 2 and the line of SAUTER EY3600 in a novaNet network.

Menu-driven operation works by directly touching the display. Installation lists, setpoint parameters, time programmes, trend graphs and system settings may be selected and edited without additional parameterisation. Passwords and user rights provide effective security.

2 Important notes for use

2.1 Used abbreviations

Abbreviation	Explanation
AS	Automation station
AUT	Automatic
BBf	Binary command address
MFA	Machine fine address
SW	Setpoint

2.2 Further documentation



modu250 (EY-OP250F001)

Fitting instructions	MV 505814
Datasheet	PDS 93.01
Materialdeclaration	MD 92.750

2.3 Accessories

Software

GZF 520*	Touch-panel parameterising software for Windows, for freely designing the user interface * Available directly from the extranet or implemented as a tool in CASE Suite
----------	---

Connecting cables

0367862 001	Connecting cable (1.5 m) modu250 <--> AS
0367862 002	Connecting cable (2.9 m) modu250<--> AS
0367862 003	Connecting cable (6.0 m) modu250 <--> AS

General

0374494 001	Stylus set for EYT 250
0374509 001	Power supply connector, 3-pin
0374515 001	Set for IP 65 protection
0374680 001	Individual seal (for set 0374515 001)

2.4 Training at Sauter

Fr. Sauter Ltd. or the Sauter branches in various countries can offer a training course for touch-panel users. Information about available training courses can also be found in the Sauter Seminar Programme.

3 User Interface and operation

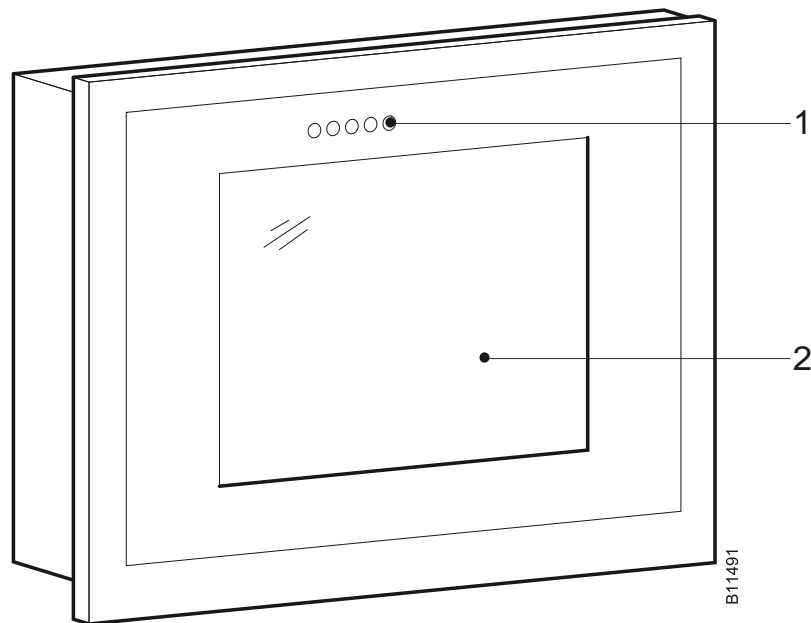


Fig. 1 User interface modu250

- | | |
|---|----------------------|
| 1 | LED indicators |
| 2 | Display, Touch Panel |

3.1 Operation

All operations are performed by touching the display. In 'plug & play' mode, automation station configuration (data points) are automatically read out and may thus be managed as follows without requiring additional parameterisation:

- Application display and selection (direct access to automation stations)
- Measured value, alarm and status display
- Issuing analogue and digital positioning commands (max. 200 data points per station or installation)
- Display and change time or holiday programmes, date and time of day
- Read and display historical data (max. 3 data points per screen)
- Configure password and access rights
- General settings (contrast, calibration, reboot, system info)

GZF 520 F001 CASE TPC parameterisation software may be used to create a custom user interface (graphics, charts, lists). This provides a convenient means of implementing application-specific displays.

3.2 LED indicators

LEDs above the touch-panel display information as follows:

- flashing green middle LED indicates that the power supply is OK
- flashing red outside left LED indicates an active alarm in an open application

4 Overview

4.1 Introduction

The nova250 Touch Panel for the Sauter EY3600 system comprises local operation of the automation stations with the possibility of bus-wide access to the EY3600 system. The two variants of the touch-panel – monochrome or colour – provide a convenient graphic presentation with operation from plant lists or graphics, time programs and historical data by touching the surface of the panel. Operational security can be implemented by assigning passwords and user rights for different users. The touch-panel can be fitted into a motor control centre or onto a top-hat rail.

These Operating Instructions aim to explain the basic functions of the touch-panel and to aid operation of the automatically created application.

In the rest of this section, you will find information on installing the touch-panel. If the device is already installed and capable of functioning, please refer to sections 2 to 4 for the main instructions on correct operation of the touch-panel.

4.2 Installation

The Fitting Instructions (MV 505814) enclosed with the product contain information on how to install the device correctly.

Fig. 2 shows how the device is installed in a switch cabinet.

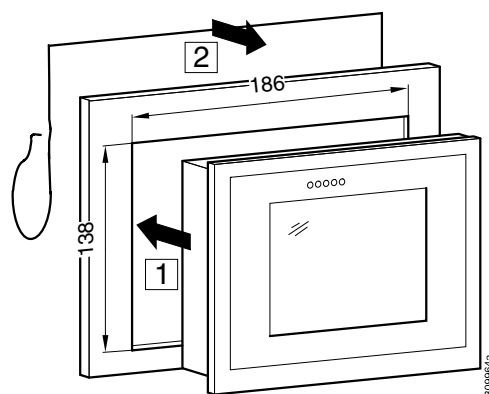


Fig. 2 Installation in a switch cabinet

The touch-panel may also be fixed onto a top-hat rail. Accessory 0374515 is available for a water- and dust-proof IP65 installation.

4.3 Connections

Fig. 1-2 shows all the connections. The touch-panel must be connected to a power supply (230 V~ or 115 V~) with an earth protection wire and to the EY3600 novaNet system bus (RJ-11).

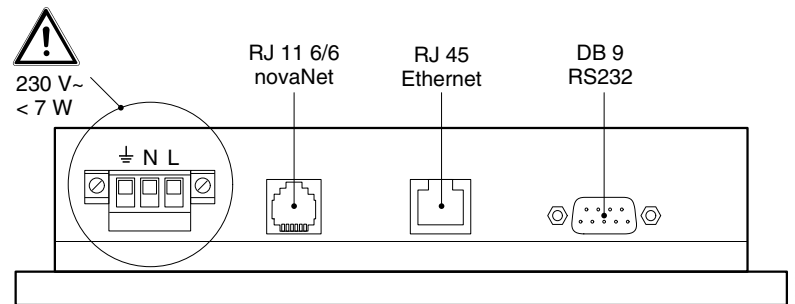


Fig. 3 Connections

As the power supply is permanently installed and is not in the low-voltage range, the installation must be carried out by a trained specialist (technician, electrician or installer).

The other connections such as the RJ-45 connection for Ethernet and the DB-9 interface (RS232) are used only for any application downloads and firmware updates that may be needed.

NOTICE

You must select the correct cable for the novaNet connection in accordance with the EY3600 specifications, in order to prevent interference on the data line.

4.4 Light-emitting diodes

The touch-panel has two light-emitting diodes  that are used. The green one in the middle flashes when the touch-panel has the correct voltage supply. The red light-emitting diode on the left flashes when an active application is showing an alarm status.

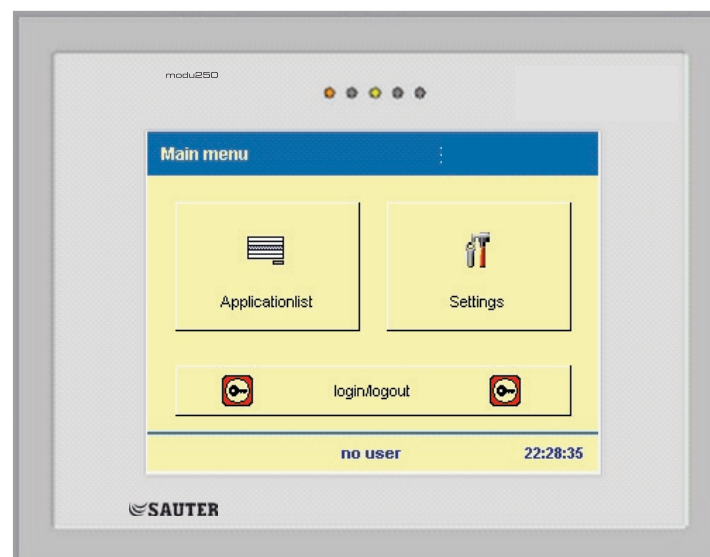


Fig. 4 Touch-panel with light-emitting diodes



The alarm LED never flashes in the main menu or in the application list menu, i.e. if an application is not enabled.

4.5 Configuration

The touch-panel can be used directly, without configuration, with the Sauter EY-modulo- and EY3600 system. When you do this, the configuration of the automation stations is read automatically and the touch-panel application is created. Sections 3 and 4 describe the standard functions and section 5 explains the touch-panel settings.



If you do not wish to use this application, individual applications and dynamised pictures can be created with the CASE Touch-panel Configurator (CASE TPC). All the options that can be configured and programmed with the CASE TPC require technical input and are not covered by these Operating Instructions. More information is available in the CASE TPC manual. Sauter will be happy to provide further information.

5 Start screen

5.1 Main menu

After you have successfully connected and started the touch-panel, the main menu start screen is called up automatically. This contains the top level of menu items.

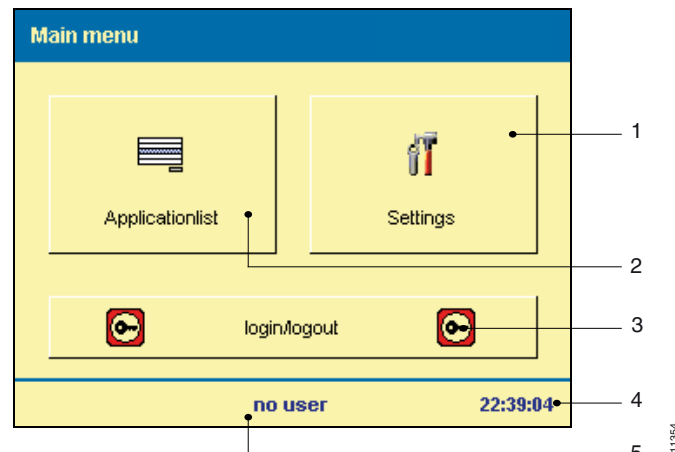


Fig. 5 Main menu

- | | |
|---|--|
| 1 | Settings |
| 2 | Application list |
| 3 | Login/logout (with password) |
| 4 | Time (in the status bar) |
| 5 | User (in the status bar): Default administrator, Logged out, no user |

The touch screen is divided into three sections:-

1. Title bar: 
Menü-Überschrift (evt. mit Firmenlogo)
2. The central area is used to display the various functions and buttons as depicted in Fig. 5.
3. Status bar: 
Displays the logged-in user with the current time. Also, the status bar often contains the back arrow , which is used to go back to the previous window.

Touch one of the three buttons to select the function of your choice:-

- Application list (section 3)
 - Selection of the automation station (AS) or plant that you want
- Settings (section 5)
 - Calibration: calibration of the touch-panel screen
 - Reboot: restart the touch-panel software
 - System info: view the current system settings and versions

Start screen

Other settings:-

- Display parameters: setting the screen contrast
- Clock: set the time
- Profiles: create users
- Filters: view, enable and disable filters
- Login/logout (section 5.2)
 - User login or logout
 - Change password



- To visualise and change all functions under Settings, you must be logged in as a user in the administrator user group. See section 5.7.
- If you are an administrator, you can touch the time **08:48:51** in the status bar to adjust the time.
- The title bar with the Sauter Logo and general main texts can be adapted to individual requirements (OEM) on request.
- If the screen is not used after you have started the touch-panel, the background illumination will be turned off automatically. If the background illumination is not activated for about 60 seconds after starting, the touch-panel software will automatically return to the last application that was used.

5.2 Login, logout

Touch the Login/logout button  on the start screen to view a dialogue for user login/logout (Fig. 6). You can also go to the same login/logout dialogue by touching the name **no user** of the user who is not yet logged in, or the name of the logged-in user, e.g. **Administrator**, in the status bar.

The list of user names shows all users who have been defined by the administrator in the Profiles menu. See section 8.7.

In the original status, three users with different access rights are defined:-

User name	Description
-----	No user, only allows operation of the panel (without password).
Administrator	„Default administrator“, allows viewing all data points, entry of system parameters, setpoints, switching commands and time programs and requests of historical data (Default password: 654321).
User	„Default user“, allows viewing all data points, entry of setpoints, switching commands and time programs and requests of historical data (Default password: 123456).
Guest	„Default guest“, allows viewing all data points and requests of historical data (Default password: 1).

Tab. 1 Access rights

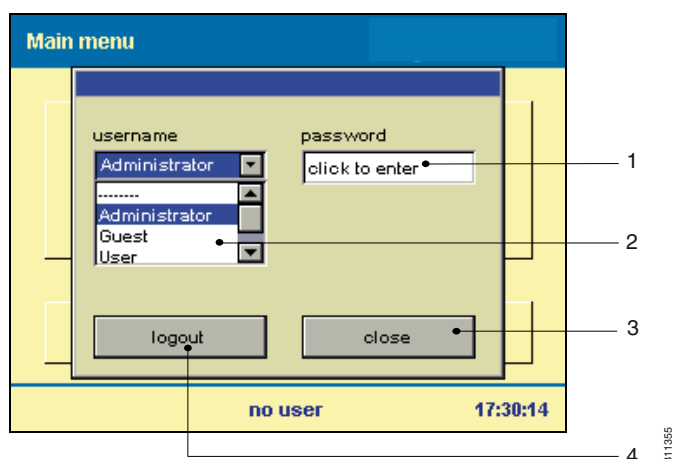


Fig. 6 Login/Logout

- 1 Password: box to enter the password
- 2 User name: dropdown list box to select the user
- 3 logs out the current user
- 4 saves the entry and accepts the login



The **change password** button only appears when the user who is already logged in is selected.

5.2.1 Login and enter password

1. To log in, first select the user name from the list box and touch the password box (Fig. 6).

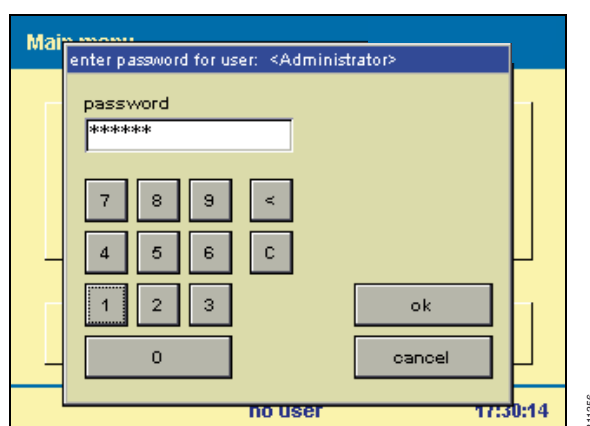


Fig. 7 Enter Password

- ➡ You see a numerical keypad with a request to enter the password.
2. You can now enter the password. Press **ok** to confirm the password, the user is logged in and you are returned to the screen shown in Fig. 8.
3. If you press **cancel** you are also taken back so you can cancel the login.

Start screen

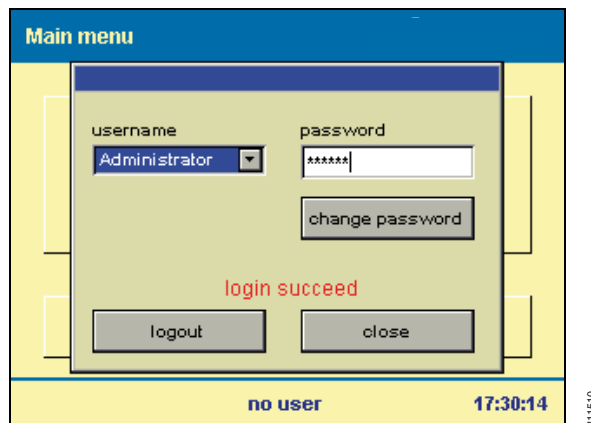


Fig. 8 Successful Log-in

➡ A red message tells you whether **login succeeded** (correct password) or **login failed** (incorrect password).

4. Press to complete the login entry.

5. Press to logout again.

5.2.2 Change password

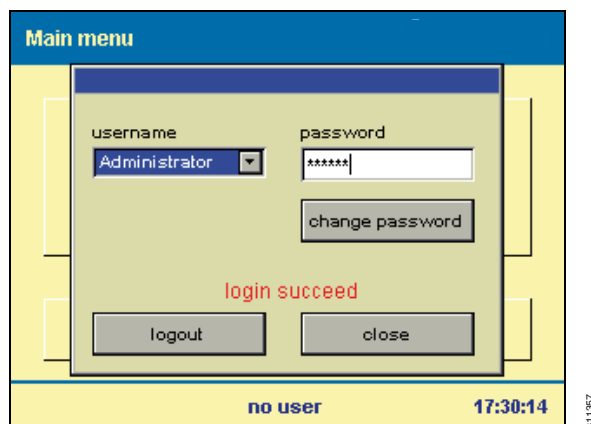


Fig. 9 Change Password

If you want to change the password, you must already be logged in as a user. In this case, you will see the button, which you have to press in order to change the password.

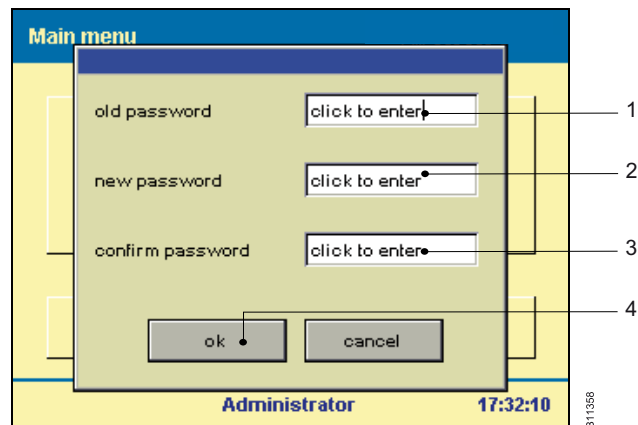


Fig. 10 Entries to Change a Password

Make the following entries in sequence:-

1. Enter the old password
2. Enter the new password
3. Confirm the new password
4. Press the  button to save and return

If you press the  button, you return to the previous screen without making any changes (Fig. 10).

6 Applications

6.1 Application list

Touch the  Application list button on the start screen to view a list of all automation stations or plants that respond via the EY3600 system bus (novaNet) and that meet the conditions for a filter, if one has been set (see section 8.8).



This list can have a maximum of 100 entries.

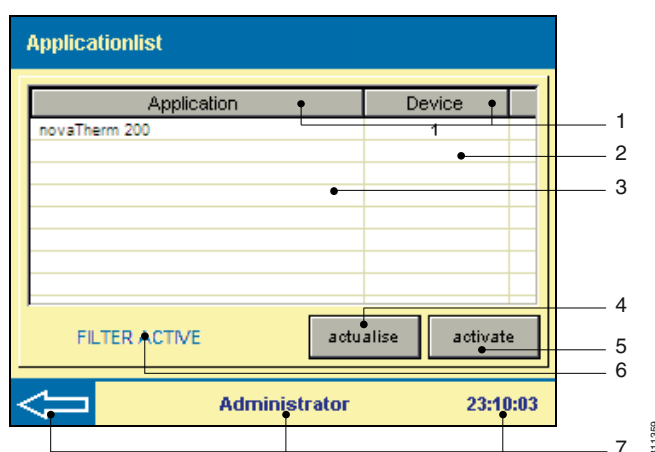


Fig. 11 Application List

- 1 Press on the Application column header or AS address to sort the lines in ascending or descending alphanumeric order.
- 2 The AS address column shows the group address of the AS. If an application is distributed over several AS, an * is shown.
- 3 The Application column shows which applications have responded. Depending on the definition in CASE FBD, this column shows the house address or, if no definition is available, the default name (device with AS address, e.g. device-220) is shown.
- 4 All data are read again in the AS.
- 5 The data are read in the touch-panel's memory.
- 6 If a filter is active, a FILTER ACTIVE message is shown. See also section 8.8.
- 7 The logged-in user, time and back arrow for the main menu are also shown in the status bar.

6.2 Select an application

The application that should be displayed can be selected from the list.

An application that has never been read or that you want to read again can read all data from the AS (on the novaNet) by pressing . The  button therefore re-assembles the configuration ('Update/actualise data points'), the data points are registered and the values (analogue values, statuses, alarms) are read afresh.

Press the  button to trigger loading of all data points and pictures that are

Applications

assigned to this application. The  button guarantees that the current values in the data-point list are read and registered on the AS ('Activate data points'). The data-point list is taken from the application in the touch-panel memory and is not updated. In this case, only the values, statuses and alarms are read afresh.

As long as data are being polled (scanned), the message in Fig. 12 is shown.

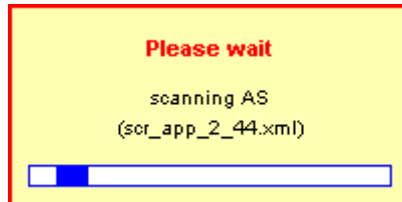


Fig. 12 Please Wait

After the application has been updated or activated, either the data-point list or the start screen for the application will appear.

Various types of touch-panel applications and visualisations are possible:-

- a) If no project for this application is stored in the touch-panel, a data-point list is shown. The loading window tells you: 'Please wait, scanning AS, file missing (scr_app_0_0.xml)'.
- b) If a project for this application is stored in the touch-panel, the assigned start screen appears.

These instructions deal with the touch-panel Standard Application (that is a)) excluding design engineering with CASE TPC (see section 4.5).

7 Standard application

This section describes the Standard Application with all the basic functions of the touch-panel.

7.1 Data points

7.1.1 View data-point list

This data-point list contains all the data points in the application (the project corresponding to the CASE FBD). In the touch-panel (colour), the data points are shown in three different colours.

Red:	Alarm data point, alarm active.
Blue:	Data point in remote mode.
Black:	Data point in automatic mode or alarm inactive.



This list can have a maximum of 200 entries.

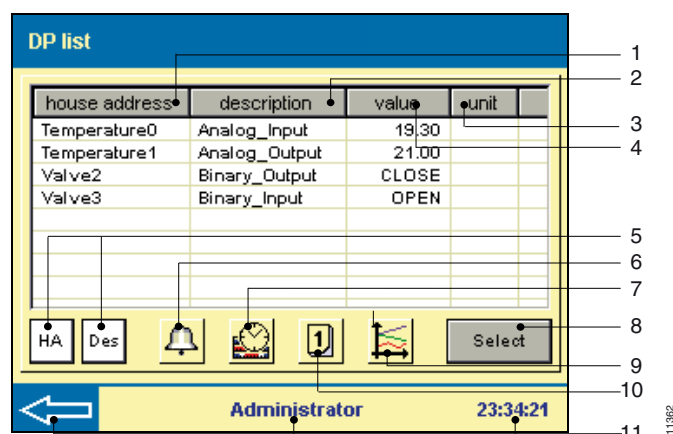


Fig. 13 Data-point list

- 1 address of the data point
- 2 data point description (address text)
- 3 shows the physical variable
- 4 current value

Press the column header – house address, description, value or unit (physical variable) – to sort the lines in ascending or descending alphanumeric order.

- 5 The  (house address) and  (description) buttons allow you to show or hide the house address and address text columns, only the house address, only the address text or only the value and physical variable.
- 6  button: use this button to activate the selected data point so you can make changes to the status or (setpoint) values.
- 7 Historical Database button : this button enables you to define and view the presentation of up to 3 values (see section 4.4).

Standard application

8	Calendar button  : this button allows you to read special days that influence the basic time program, or to define new special days. The special day display can be defined for up to 2 years in advance (see section 4.3).
9	Time program button  : this button allows you to read weekly time programs or specify new ones (see section 4.3).
10	Alarm button  : this button enables you to visualise all data points that are defined as alarms and are currently active (see section 4.2).
11	The logged-in user SAUTER , time 12:24:06 and back arrow  to go to the application list are also visualised in the status bar.

7.1.2 Change command or value from data-point list

The data-point list allows manual setting or changing of all data points that accept remote commands or value changes. Select the relevant line with the data point; you must press the  button in order to make the entry. These windows are shown for binary values.

Automatic mode



Fig. 14 Binary Output, Automatic

Manual mode

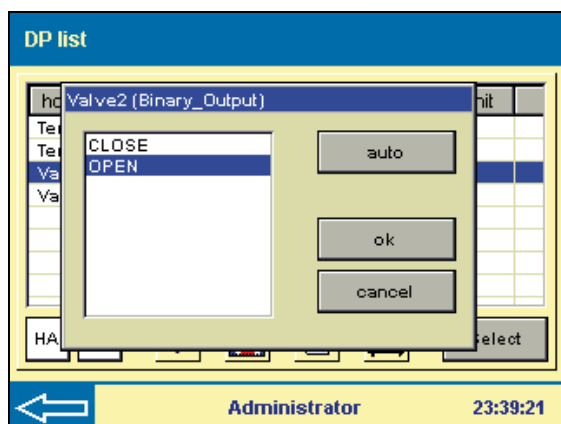


Fig. 15 Binary Output, Switching Command

Automatic mode can be selected with . To select a manual status for the command the button has to be deselected and the command as OPEN or CLOSE, for example, can be chosen. Use the button to close the switching command. Use the button to return to the previous screen (Fig. 13).



Statuses OPEN and CLOSE are specified command texts in the project engineering (CASE FBD) and they may have different names for the application.

These windows are shown for analogue values.

Automatic mode

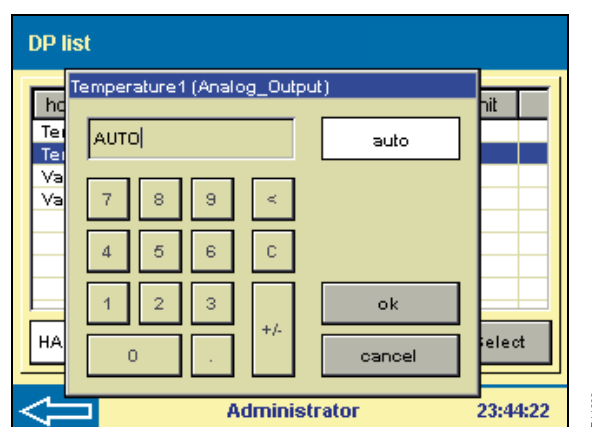


Fig. 16 Analogue Output, Automatic

Manual mode

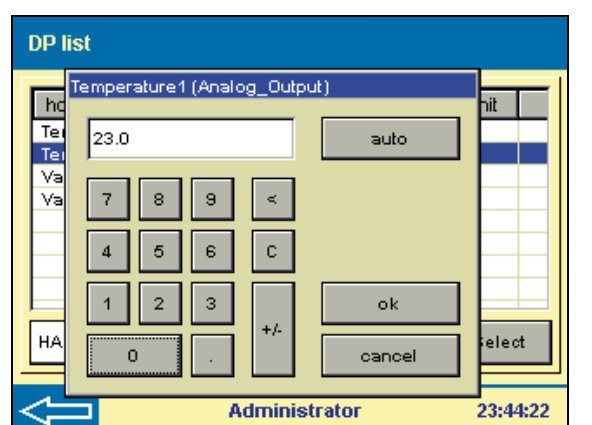


Fig. 17 Analogue Output, Setpoint

You can select automatic mode with . To select a manual value for the analogue output the button has to be deselected and the analogue (setpoint) value as 23.0, for example, can be entered. Numerical buttons are available to enter the numbers.

Standard application

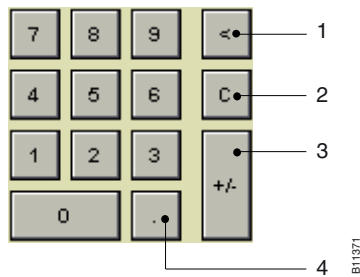


Fig. 18 Numerical entries

- 1 ,Backspace' deletes the previous character
- 2 ,Clear' deletes the whole entry
- 3 change prefixed sign
- 4 decimal point

Press the **ok** button to apply the value and the window will be closed. Press the **cancel** button to return to the previous screen (Fig. 13).

7.2 Alarms

If an alarm status is active in the selected application, the top left red light-emitting diode (LED) will flash.

NOTICE

The light-emitting diode is lit only when the application is activated.

7.2.1 Visualise alarm list

Press the alarm list button in the data-point list to open a window with a list of all active alarm data points.

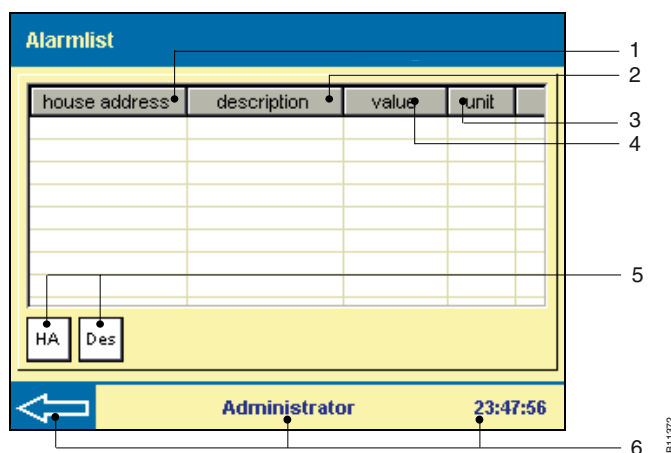


Fig. 19 Alarm List

- 1 address of the data point
- 2 data point description (address text)
- 3 shows the physical variable
- 4 current value

Press the column header house – address, description, value or unit – to sort the lines in ascending or descending alphanumeric order.

- 5 The  (house address) and  (description) buttons allow you to show or hide the house address and address text columns, only the house address, only the address text or only the value and physical variable.
- 6 The logged-in user **SAUTER**, time **12:24:06** and back arrow  to go to the data-point list are also visualised in the status bar.

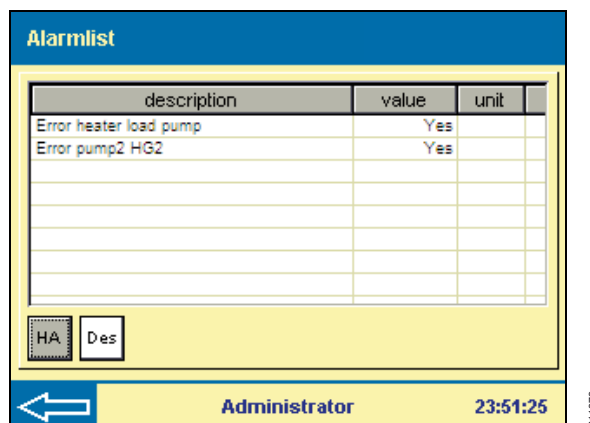


Fig. 20 Active Alarms

Fig. 20 shows an example of an alarm list with active alarms. Button  was pressed to hide the house address column.

7.3 Time programs and calendar

7.3.1 Data points for time programs

By pressing the time program button , you can visualise the existing time program for specified data points or define another time program. Fig. 21 shows a list of data points that can be linked to a time program.

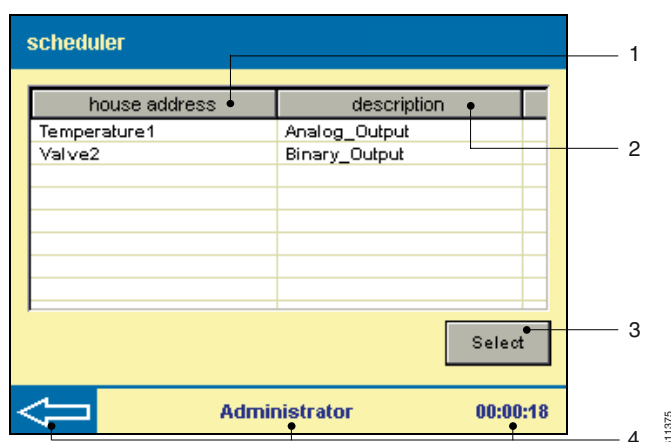


Fig. 21 Time Program

- 1 address of the data point
- 2 data point description (address text)

- 3 Press the column header – house address or description – to sort the lines in ascending or descending alphanumeric order.
- 4 The status bar is also shown, allowing you to return to the data-point list.

To visualise or change the time program or to create a new one, the data point must be selected and activated by pressing . The current time program for the data point is then read from the AS.

NOTICE To change time programs, you must be logged in as a user from the administrator or user group. See section 8.7.

7.3.2 Time program for days of the week

Once the data point is selected, a window as shown in Fig. 22 will be displayed (data point without weekday time program).

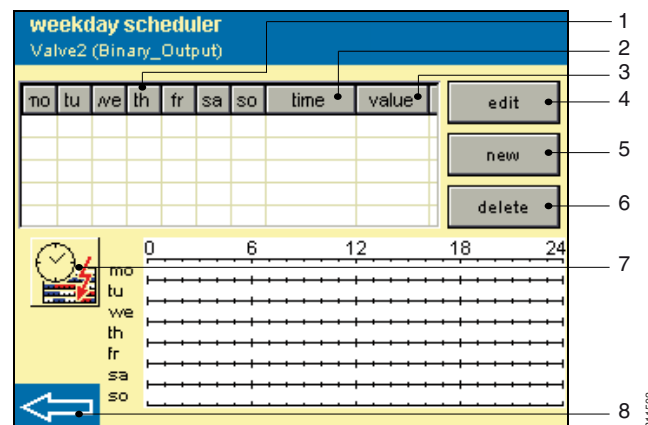


Fig. 22 Weekday Time Program

- 1 Columns  to  represent the seven days of the week from Monday until Sunday.
- 2 **Time** column: indicates the switching time
- 3 **Value** column: shows the value to be set or the status to be switched.
- 4 Allows you to change the selected existing time program entry.
- 5 Allows you to create new time program entries.
- 6 Allows you to delete the existing time program entry.
- 7 Buttons  or  switch over between the weekday time program and the special day time program for the relevant data point (see also section 7.3.4).
- 8 Press  to exit the time programs and the configuration will be sent to the AS (see section 7.3.5).

The list view of the weekday time program is in the upper section of the window and the graphic view is in the lower section.

The time program sets or changes the data point to the time on the activated weekday and the activated special day with the analogue value or switching command value.

An example:-

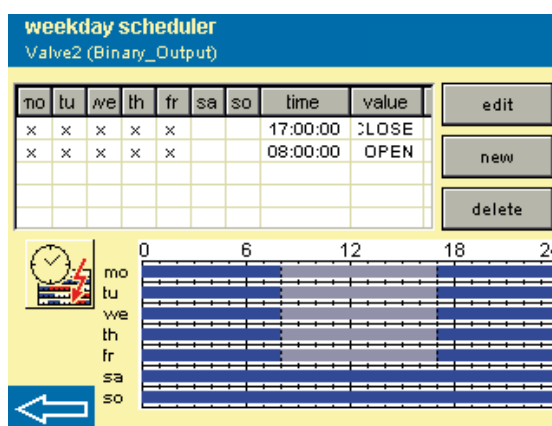


Fig. 23 Example of Time Program

If the selected data point has a time program, the time program is shown graphically (in different colours) and in list form (Fig. 23).

In the example, the valve (,Valve2') is opened at 8 o'clock on Monday to Friday (OPEN) and is closed again at 5 o'clock (1700 hours) (CLOSE).

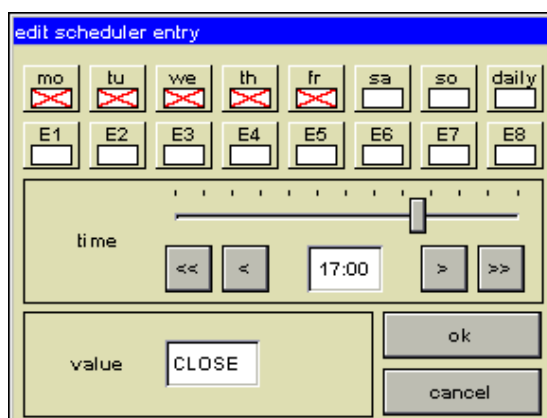
When you press the **edit** button (after selecting a line from the list) or the **new** button, you see the window for making entries in the time program (Fig. 24).

NOTICE

Press **delete** to delete the selected entry without further enquiries, except when the time program entry is parameterised for both a weekday and a special day.

7.3.3 Time program entry

To make a time program entry, there is a window to parameterise the time program values and switching commands, with the relevant timing, both for the weekdays and the special days.



The screenshot shows a window titled "edit scheduler entry". It has a grid of buttons for days of the week (mo, tu, we, th, fr, sa, so) and a "daily" button. Below this is a grid of buttons labeled E1 through E8. In the center, there is a time selection interface with a slider and buttons for navigating between times, currently showing 17:00. At the bottom, there is a "value" field showing "CLOSE" and buttons for "ok" and "cancel".

Fig. 24 Time Program Entry

Weekdays	Monday  to Sunday 
Special days	 to 

Standard application

Daily ()	(disables) enables all weekdays and special days
Time	timing of switching command or value change
Value	switching status or analogue value
	confirm entry
	cancel entry
Weekdays, Monday  to Sunday 	touch these buttons to enable () or disable () the desired weekdays for the switching command or the value change.
Special days ( to )	up to 8 special day time programs can be assigned to this data point with the help of the calendar function (also see section 8.3.6).
Time	You can set and change the switching time with the slider  or the forwards / backwards buttons (1-minute steps  ,  , 30-minute steps  , ).
Value	Touch this box to open the window where you set values or commands. In the window, you can set the analogue value or switching command and confirm with OK. The new value or command is shown (also see Fig. 14 to Fig. 18).

Press  to confirm the new or corrected entry for the time program. The window with the graphic display appears again.

Press  to cancel the entry and go back to the graphic view without accepting any changes.

7.3.4 Time program for special days

When you press  to switch over to the special day time program, you see a window as shown in Fig. 25 (data point without special day time program).

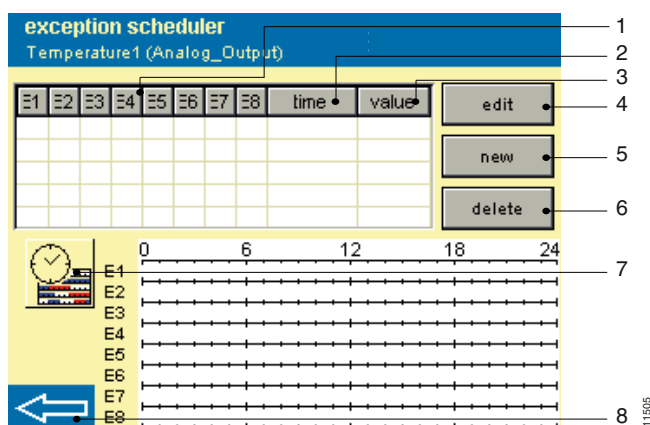


Fig. 25 Special Day Time Program

- Columns  to  show the eight special days.
- Time** column: indicates the switching time
- Value** column: shows the value to be set or the status to be switched

4	Allows you to change the selected existing time program entry.
5	Allows you to create new time program entries.
6	Allows you to delete an existing time program entry.
7	Buttons  or  switch over between the special day time program and the weekday time program for the relevant data point (also see section 7.3.2).
8	Press  in the time program to prepare for writing the time program to the AS. Before the time program is sent, you see a confirmation window (see section 7.3.5).

The list view of the special day time program for all 8 special days is in the upper section of the window and the graphic view is in the lower section.

When you press the  button (after selecting a line from the list) or the  button, you see the window for making entries in the time program (Fig. 24). The procedure for making entries is the same as for editing or creating a time program entry from the weekday time program view, as described in section 7.3.3.

Time programs that are defined in this way on the special days can then be released for specified days using the calendar function (section 7.3.6).

7.3.5 Send time programs

Press  in the weekday time program (Fig. 22) or the special day time program (Fig. 25) to prepare for writing the time program to the AS. Before the time program is sent, you see a confirmation window.

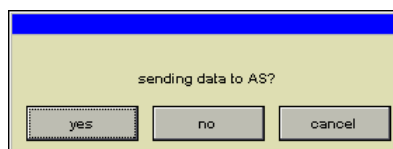


Fig. 26 Send Time Program

Press  to send the time program for the data point to the AS. If you press , the time program will not be sent and you 'lose' any entries that may have been changed. In both cases, you exit the time program and go to the overview of data points for time programs. Press  to stay in the weekday or special day time program.

7.3.6 Calendar

Press the calendar button  to see the window shown in Fig. 27 (automation station without defined calendar function).

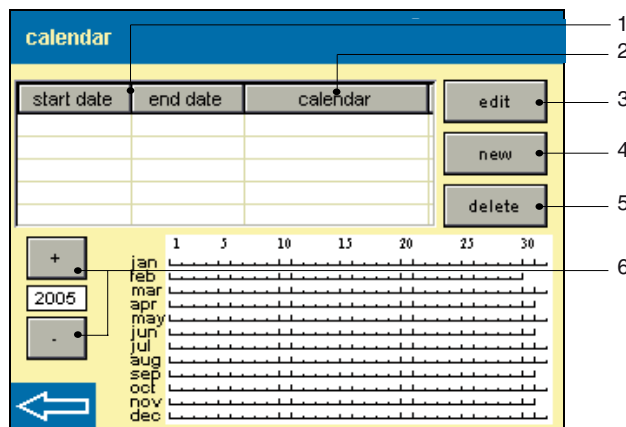


Fig. 27 Calendar

- 1 The Start date and End date columns define the period for the calendar entry.
- 2 The Calendar column shows the definition of the calendar entry, either with special day 1 to 8 or an assigned weekday.
- 3 Allows you to change the selected existing calendar entry.
- 4 Allows you to create a new calendar entry.
- 5 Allows you to delete the selected calendar entry.
- 6 is used to change the year calendar over in the graphic view. Special days can be defined 2 years in advance.

The list view of the calendar entries (active special days) is in the upper section of the window and a graphic view of the yearly calendar with visualised special days is in the lower section. Special day periods are shown in red and individual special days are shown in blue.

When you press the **edit** button (after selecting a line from the list) or the **new** button, you see the window for making entries in the calendar (Fig. 28).

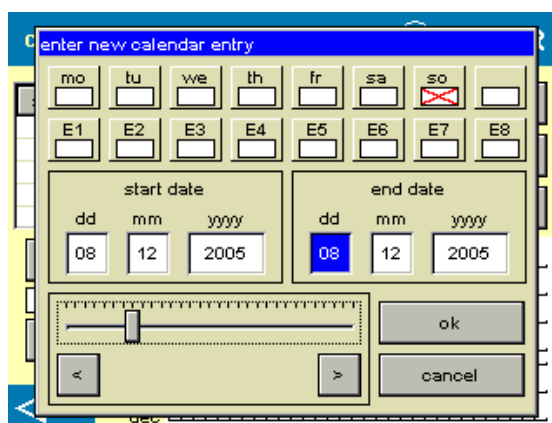


Fig. 28 Calendar Entry

Weekdays	Monday  to Sunday 
Special days	 to 
  	buttons and slider to set the start and end dates of the special day period



Click on  to  or  to  to select a desired special day or a (different) weekday for the calendar entry.

A time program for a data point can use these special days (e.g. 'special day period during works holidays'), or it uses a time program for a different weekday instead of the time program for the real weekday (e.g. 'Sunday time program on a public holiday').

The period (from start to end date) for the calendar entry can be set with the slider  or with   ('special day period'). The slider resolution changes depending on the date box that is activated (DD/MM/YYYY: day/month/year). If the calendar entry is defined only on one specific day, the start and end dates must be identical ('special day').

Press  in the calendar (Fig. 27) to prepare for writing the (2-year) calendar to the AS. Before the calendar is sent, you see a confirmation window.

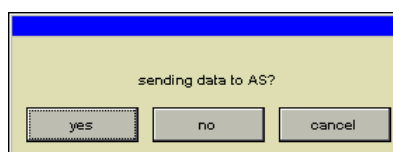


Fig. 29 Send Calendar

Press  to send the calendar to all AS that are connected to the novaNet or are included in any filter that may be activated. If you press , the calendar will not be sent and you 'lose' any entries that may have been changed. In both cases, you exit the calendar and go to the data-point list. Press  to stay in the calendar.

7.4 Historical data

Press the historical data  button in the data-point list to open a window with a list of all data points (Fig. 30). This is the 'interactive' configuration for the graphic view of historical data for up to three data points.

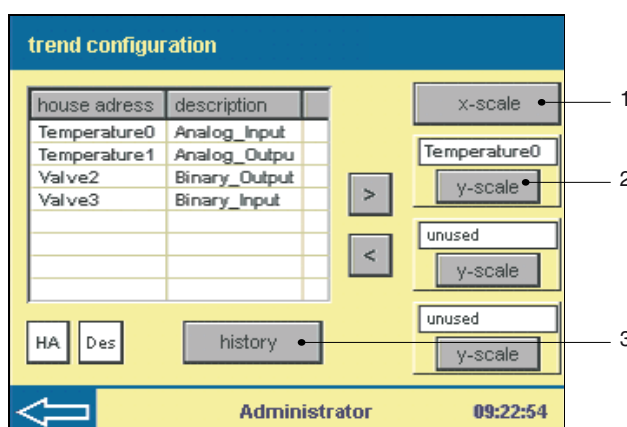


Fig. 30 HDB Configuration

Standard application

- 1 definition of the time axis
- 2 definition of the value range in the Y-scale
- 3 read and show historical data

- ▶ Select the data point and add it by pressing . The house address appears in the blank ,unused' box.
- ➡ When you add an analogue value, the Y-scale window opens (Fig. 31). The Y-scale is not active for binary values.

The  buttons allow you to adapt the defined minimum and maximum Y-scale values for the relevant data points that were added.

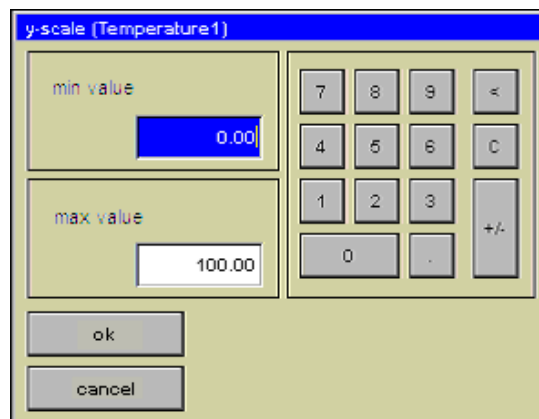


Fig. 31 Value Range, Y-scale

In this window, you can define the Y-scale for the data point with **min. value** and **max. value** by pressing the number keys (also see Fig. 18).

- ▶ Press  to confirm your entry.
- ▶ Press  to return to HDB configuration (Fig. 30), without making a change.

The  button allows you to adapt the time axis for the graphic HDB view.

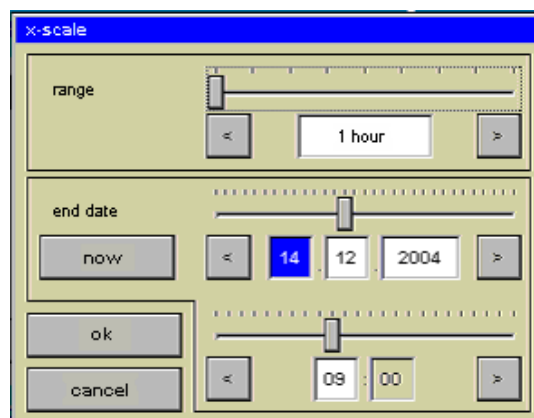


Fig. 32 Time Axis, X-scale

1. First, define the desired (time) **range** for reading the HDB using the   buttons or the slider .

2. Then select the **end date** with the timing for the time range using the slider  and the   buttons.
3. Press  to select the current date with the current time as the end date.
4. Press  to confirm your entry.
5. Press  to return to the HDB configuration (Fig. 30), without making a change.

These time ranges are possible:-

1 hour, 4 hours or 12 hours, 1 day, 7 days, 1 month, 3 or 6 months or 1 year.

Press  to read the historical data for the selected data points from the AS. Fig. 33 shows an empty historical database.

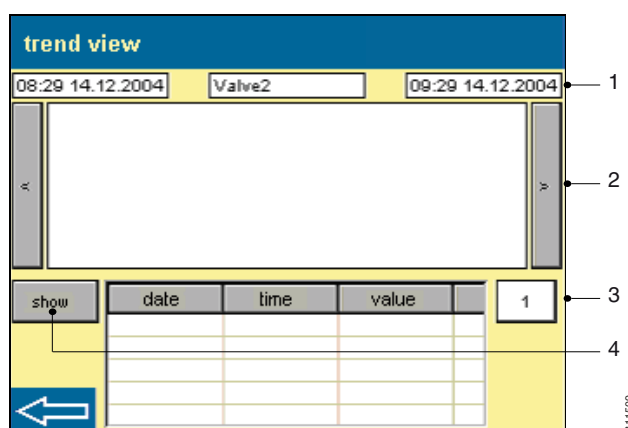


Fig. 33 HDB Ansicht

- | | |
|---|---|
| 1 | start date, house address, end date |
| 2 | graphic view with scroll function |
| 3 | list of HDB entries for the active data point with date, time and value |
| 4 | visualises the selected entry with lines in the graphic view |

,  or up to  to activate the HDB entries for the data point

The date and time, according to the start and end of the time range, are shown above the graphic view (left and right). The house address is at the top in the middle.

In the centre, you see the box for the graphic view of up to 3 data points. The HDB entries are shown connected with a straight line. Use buttons ,  or up to  to activate the data point (white is active, the line is bold; grey is inactive, the line is thin). Use the scroll buttons to shift the graphic forwards or backwards around the time range ('scrolling').

At the bottom, you see the list of HDB entries for the active data point that have been read, with time, date and value. If you select an HDB entry from the list and

press , dotted lines will appear in the graphic for the selected point.

The next illustrations show an example of a plant and its historical data.

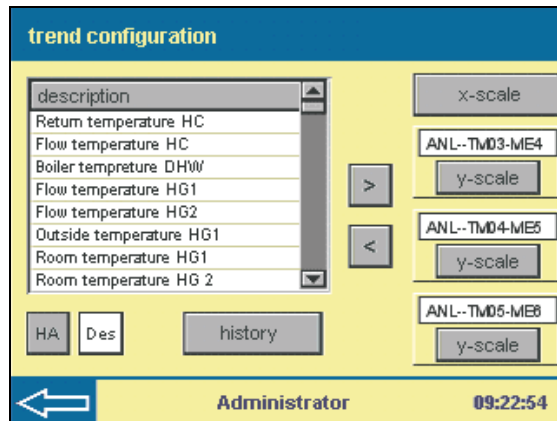


Fig. 34 HDB Configuration, Example

Fig. 34 shows an example with data points for a heating plant. The maximum of three data points have been added, and by pressing they could be shown as a graphic as depicted in Fig. 35.

In this case, the house address was deactivated in the list view, so only the description of the data points in the list is shown.

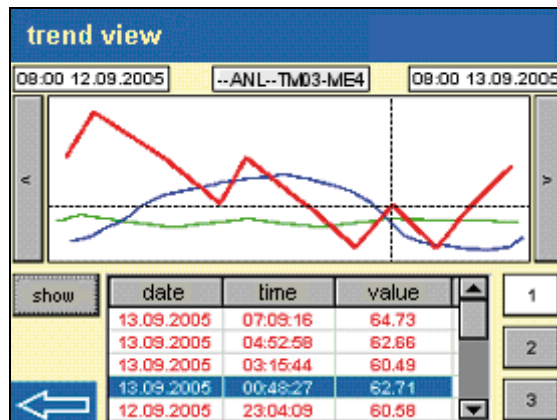


Fig. 35 HDB View, Example

The first data point is activated with . The HDB entry with value 62.71 is selected and is pressed to highlight it with dotted lines.

The colours for the three curves are permanently defined:-

- = red
- = green
- = blue

8 Settings

As described in section 2.1, it is possible to make various settings for the touch-panel. Press the settings button  in the main menu to see Fig. 5-1.

To change all settings, you must be logged in as a user in the administrator group.

A user who is not logged in ('no user') and users from the Guest user group can only call up the calibration, the system info and the reboot settings.

A user in the 'user' group can also access the display parameters, accessible under more settings.

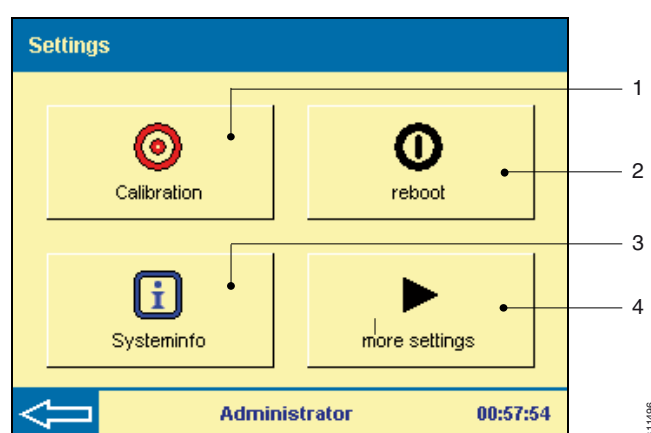


Fig. 36 Settings

- | | |
|---|---|
| 1 | Calibration: If a button cannot be correctly assigned to the action, a calibration must be carried out. (all) |
| 2 | Reboot: reboots the touch-panel. (all) |
| 3 | System info. Important system information can be visualised. (all) |
| 4 | More settings. This button takes you to more settings. (user and administrator) |

The next sections describe these and other settings.

8.1 Calibration

Press the Calibration  button to start the calibration.

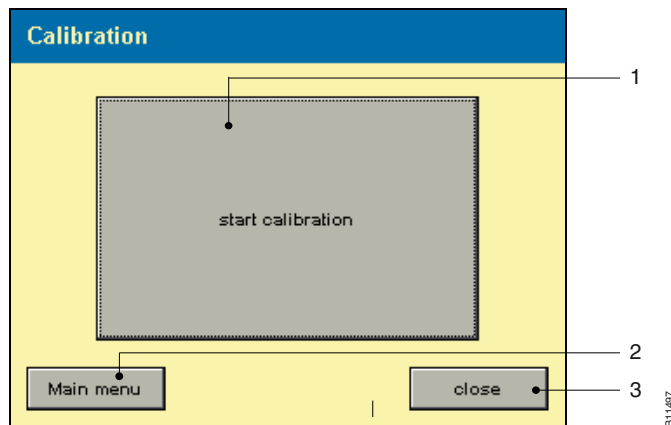


Fig. 37 Calibration

- | | |
|---|---|
| 1 | this button allows you to change the existing calibration. After you press the button, the calibration starts and Fig. 5-3 appears. |
| 2 | this button lets you return to the main menu. |
| 3 | this button lets you close the window being displayed. |



Fig. 38 Calibration Points

For a new calibration, you must press briefly in the centre of the circle at the top right and then in the circle at the bottom left.

NOTICE You are recommended to use a pen or pencil for this setting. If this operation has been performed correctly, you are taken back to Fig. 37.



Fig. 39 Calibration Error

If the calibration has not been successful, you see the **Calibration error** message as in Fig. 39. You must perform the calibration again.

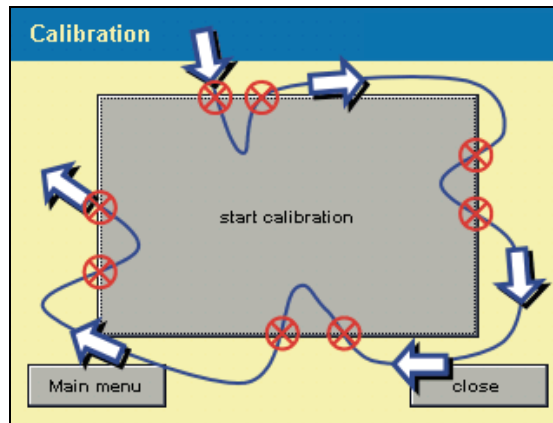


Fig. 40 Calibration Test

Press on the area with your finger or a pen/pencil, and without interrupting the pressure, check the active zone of the **Start calibration** button (follow the arrow). If the zone becomes active (white) exactly on the edge of the button , the device is correctly calibrated; otherwise, the calibration must be repeated until precision is attained.

8.2 Reboot

Press Reboot  to restart the touch-panel. This may be useful in certain cases; after you press the button, you see a confirmation window as shown in Fig. 41.

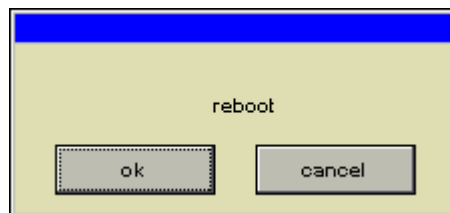


Fig. 41 Reboot

- ▶ Press  to trigger the reboot of the touch-panel.
- ▶ If you press , the reboot action is not performed and the window closes.

8.3 System information

Press the System info  button to display the most important system information.

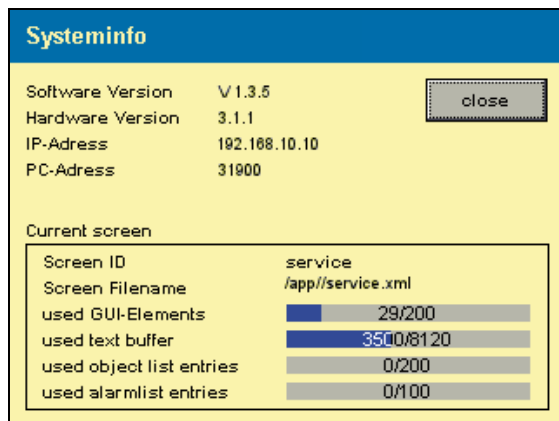


Fig. 42 System Info

The upper section contains the information about the installed versions and active configurations, such as the PC address (for novaNet) and the IP address (for application download).

For access to the EY3600 novaNet, it is important that the PC address has a unique number that is not yet present in the network.

In the **Current screen** area, you see the information about available memory and objects in the last picture that was opened.

The  button takes you back to the settings (Fig. 36).

NOTICE

Hardware versions

Colour...
Monochrome...
...with HDB and with functionality for a hardware reset

3.1.1 Colour with HDB
3.1.2 Monochrome with HDB
XX.X.1 Colour without HDB
XX.X.2 Monochrome without HDB

Software versions

Up to 1.2.x Applications without HDB
From 1.3.x Applications with HDB

8.4 Other settings

The Other settings  button takes you to Fig. 43 and – for a user from the administrator or user group – shows further setting options for the touch-panel.

These other settings are briefly described in the following sections.

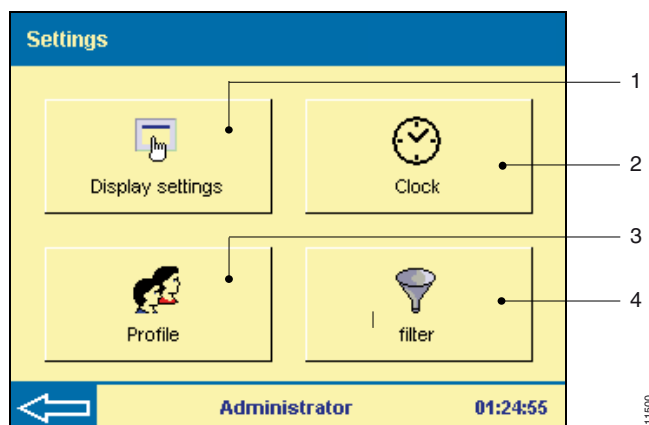


Fig. 43 Other Settings

- | | |
|---|--|
| 1 | Display settings (parameters). Use this button to adjust the contrast setting for the background illumination. (administrator and user) |
| 2 | Clock: sets time and date (administrator only) |
| 3 | Profile: user definition (administrator only) |
| 4 | Filter: to disable/enable any filters that are present (administrator only) |

Press  to return to Fig. 36.

8.5 Display parameters

Press the Display parameters  button to show settings for the display.

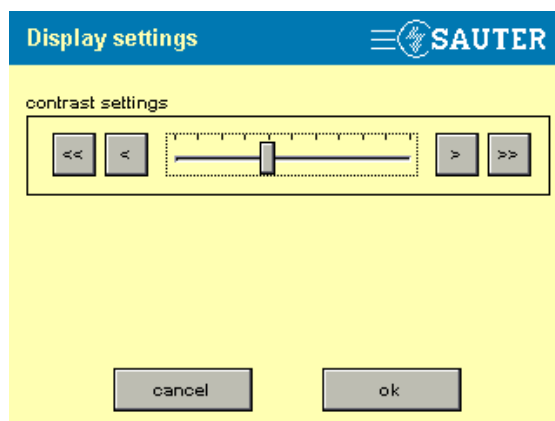


Fig. 44 Contrast Setting

Adjust the **contract setting** with the right  or left  arrow keys or the slider . As you do this, the background illumination becomes brighter (left) or darker (right).

Settings

Press  to return to the settings without making any changes.

Press  to save the new setting and return to the settings (Fig. 43).

-  The background illumination has a guaranteed lifetime of 10,000 hours and it switches off automatically after one minute if no operations are performed. Touch the screen to reactivate the background illumination.

8.6 Clock

If you detect a discrepancy between the time shown in the touch-panel and the real time, you can set the time and date on the touch-panel.

Touch the  clock button or the time shown at the bottom right to display Fig. 45.

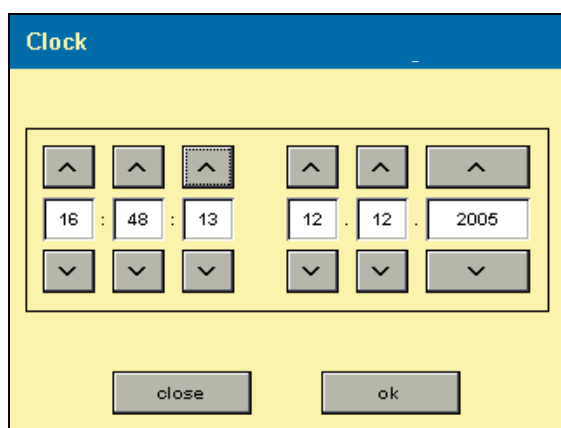


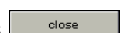
Fig. 45 Clock Setting

The information appears in the boxes as follows:-

16	:	48	:	13		12	.	12	.	2005
HH		MM		SS		DD		MM		YYYY

Use the   buttons to adjust the values in the boxes.

Press  to accept the entries; the time and date are sent to all AS that are connected to the novaNet and the window closes.

If you press , no entries are accepted and the time and date stay the same.



Time		Date	
HH:	hours (in 24h)	DD:	day
MM:	minutes	MM:	month
SS:	seconds	YYYY:	year

8.7 Profile

The touch-panel can manage various user profiles with password input. These user profiles can be assigned to one of three user groups, and they are saved in the touch-panel as user profiles.

The three user groups are defined as follows:-

User group	Description
Guest	User with viewing rights only (as well requests of historical data)
User	User with viewing rights, with rights for historical data requests and the option of entering setpoints, switching commands and time programs.
Administrator	User with viewing rights, with rights for historical data requests and the option of entering system parameters, setpoints, switching commands and time programs.
No group	This group cannot be selected and is only used internally for a user who has logged out (,no user'), who also has viewing rights only.

To make changes in the Profile settings, you must be logged in as an administrator.

Profile  button to see Fig. 46.

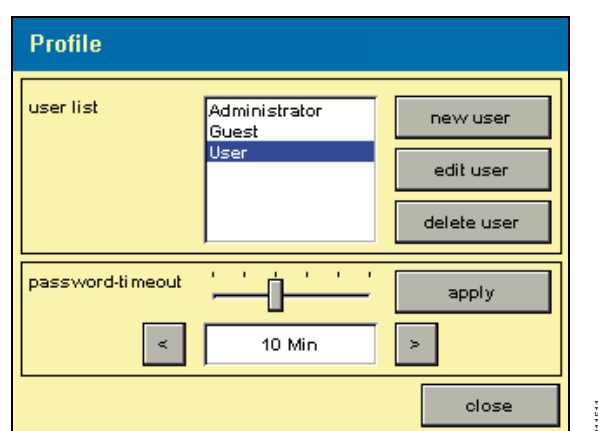


Fig. 46 Profile

The user list shows all defined users. Use these three buttons: ,  and  to create new user profiles, and edit or delete existing profiles.

The **password time-out** section defines a period after which a user is

automatically logged out.



If the logged-in user (administrator) is selected, only button is shown. The and buttons are not visualised. This means that at least one user in the administrator group will always be present.

8.7.1 Password time-out

In the Password time-out area at the bottom (see Fig. 5-11), you can define the time after which a new login is required ('Automatic logout')

- ▶ Use the buttons or the slider to adjust the setting. You have the following options for password time-out:-
1 min., 5 min., 10 min., 30 min., 60 min. and none.
- ▶ Use the button to acknowledge the selected setting. The time-out will then be active for all defined users.

If the time elapses with no further action on the screen, Fig. 47 appears:-

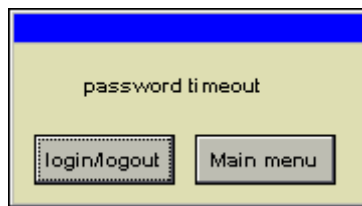


Fig. 47 Password Time-out

- ▶ Press to go automatically to the window for a new login (see Fig. 6).
- ▶ Press to return to the main menu with automatic logout.



If a user is in a window with special access rights, the user must log in again with the same access rights, otherwise an error message as shown in Fig. 48 may appear.



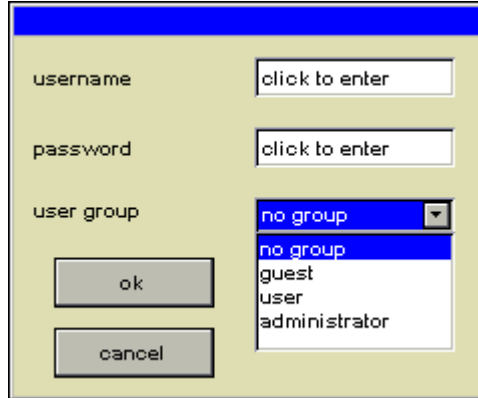
Fig. 48 Error Message for Access Rights

If you cannot log in again with the same access rights, you can simply press to return to the main menu and log in again.

If password time-out is activated, it is advisable to leave the touch-panel in a condition where all users from all user groups can log in again.

8.7.2 Create new user profile

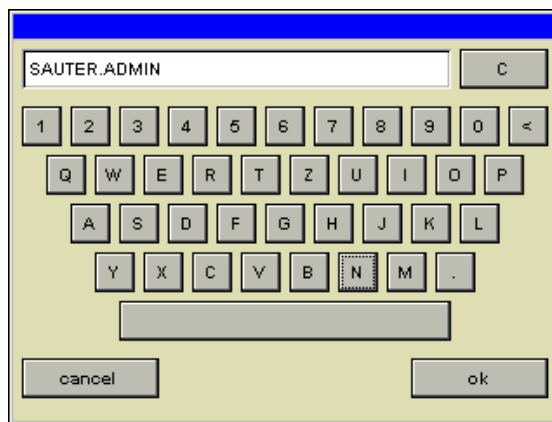
Press  in Fig. 46 and you will see Fig. 49.



The dialog box for creating a new user has a yellow background and a blue title bar. It contains three input fields: 'username' and 'password', both with 'click to enter' text, and a 'user group' dropdown menu currently showing 'no group'. Below these fields are 'ok' and 'cancel' buttons.

Fig. 49 New User

- ▶ Click on the **User name** box to define a new user. See Fig. 50.
- ▶ Click on the **Password** box to define a password for this new user. See Fig. 51.
- ▶ Click on the **User group** box to assign the user to the relevant user group with the appropriate access rights. See Fig. 52.



The dialog box for entering a user name has a yellow background and a blue title bar. It features a text input field containing 'SAUTER.ADMIN' and a 'C' button. Below the input field is a full alphanumeric keyboard. At the bottom are 'cancel' and 'ok' buttons.

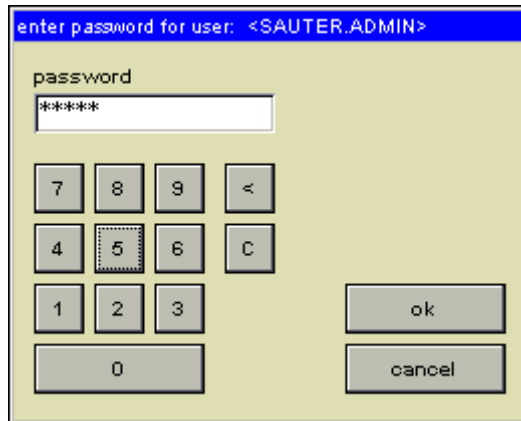
Fig. 50 Enter User Name

- ▶ Use the alphanumeric keyboard to define the new user name. At least 1 and at most 15 characters are allowed.
- ▶ Confirm with the  button and you are returned to Fig. 49 with the user name filled in.
- ▶ Press the  button to return without an entry for the user name.
- ▶ The space bar is used for an underline . Also see Fig. 18 for more special keys.



If a user profile is created with a user name that already exists, the existing user profile will be overwritten.

Settings



enter password for user: <SAUTER.ADMIN>

password

7 8 9 <

4 5 6 C

1 2 3

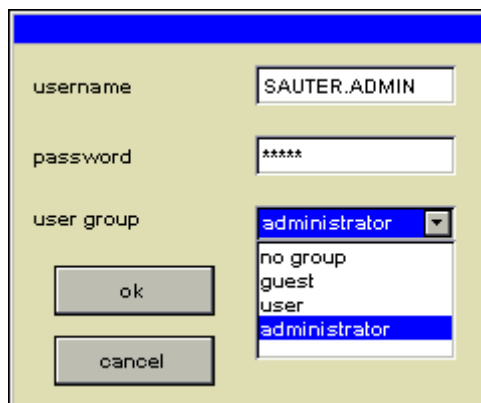
0

ok

cancel

Fig. 51 User Password

- Use the numerical keypad to define the new password. A minimum of 1 and a maximum of 16 characters are allowed.
- Confirm with the **ok** button and you are returned to Fig. 49 with the relevant password for the new user.
- Press the **cancel** button to return without a user password.



username SAUTER.ADMIN

password *****

user group administrator

no group

guest

user

administrator

ok

cancel

Fig. 52 User Group

Finally, one of the three user groups must also be assigned.

ok: confirms the entries for the new user.

cancel: cancel entries for the new user.

Once entries have been made in all three boxes – user name, password and user group – press **ok** to acknowledge the new user and then you will see the input box for the password of the logged-in administrator who wants to add the new user. Once this has been correctly entered, the new user is created. The new user will now appear in the user list as depicted in Fig. 53, should you wish to log in as described in section 5.2.

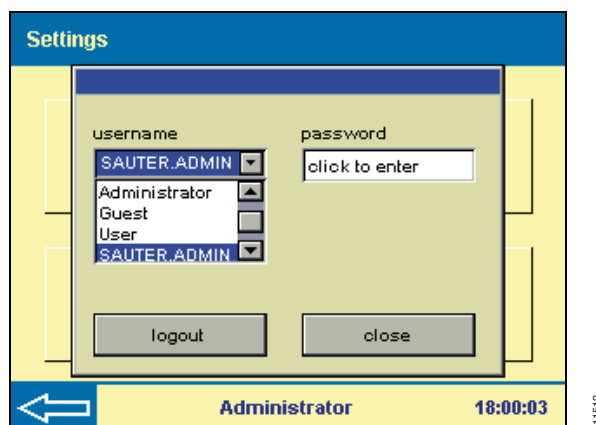


Fig. 53 New User List

8.7.3 Delete or edit user profile

If you want to delete a user profile, you must select the relevant user from the user list as shown in Fig. 5-11 and then press **delete user**. You will see a request to enter the password for the logged-in administrator. If this is successful, the user profile is deleted.

If you want to change a user profile, you must select the relevant user from the user list as shown in Fig. 5-11 and then press **edit user**. You can change the password and user group and confirm with **ok**. You will also see a request to enter the password for the logged-in administrator. If this is successful, the user profile is changed.

NOTICE

- Editing a user profile can be useful if a user has forgotten his password.
- A user name cannot be changed. To change the user name, the profile has to be deleted and a new one must be created from scratch.

8.8 Filters

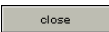
Filter definitions can be made with CASE TPC and loaded into the touch-panel. Filter definitions allow you to limit the touch-panel to a restricted range in the EY3600 system, with filters for automation stations or applications.

Press the Filter  button to show Fig. 54. In this illustration, there are no defined filters which can be enabled or disabled.

Settings

The 'filter' window has a blue header. Below it are three yellow sections: 'device filter', 'application filter', and 'calendar filter'. Each section contains a white text box with the text 'no filter found'. A grey 'close' button is located at the bottom right of the window.

Fig. 54 Filter

- Press  to close the window and return to the other settings (Fig. 43).

An example of a filter definition is shown in Fig. 55.

The 'filter' window shows three filter sections with defined filters and their activation status:

- device filter:** The text box contains '1'. The status is 'inactive' (red text) with an 'active' button next to it. A line points to this section.
- application filter:** The text box contains 'novaTherm 200'. The status is 'active' (red text) with an 'inactive' button next to it. A line points to this section.
- calendar filter:** The text box contains 'novaTherm 200'. The status is 'active' (red text) with an 'inactive' button next to it. A line points to this section.

A grey 'close' button is at the bottom right.

Fig. 55 Filter Definition - Example

- 1 AS (automation station): an AS filter is defined but not enabled (activated) . Click on  to activate the filter.
- 2 Application: an application filter named 'novaTherm 200' is defined and activated . Click on  to disable the filter.
- 3 Calendar: a calendar filter with the application name is also defined and activated. Any calendar that is sent (see section 4.3.6) will go only to this application.

If a filter is activated or deactivated and if the Filter window is closed by pressing , a dialogue box (Fig. 56) will appear asking you to reboot the touch-panel. This is necessary so that the new filter definitions can be activated.

The dialog box has a blue header and a yellow background. It contains the text 'reboot required' and two buttons: 'reboot' and 'cancel'.

Fig. 56 Reboot to Activate Filters

List of figures

Fig. 1	User interface modu250	9
Fig. 2	Installation in a switch cabinet	11
Fig. 3	Connections	12
Fig. 4	Touch-panel with light-emitting diodes	12
Fig. 5	Main menu	15
Fig. 6	Login/Logout	17
Fig. 7	Enter Password	17
Fig. 8	Successful Log-in	18
Fig. 9	Change Password	18
Fig. 10	Entries to Change a Password	19
Fig. 11	Application List	21
Fig. 12	Please Wait	22
Fig. 13	Data-point list	23
Fig. 14	Binary Output, Automatic	24
Fig. 15	Binary Output, Switching Command	24
Fig. 16	Analogue Output, Automatic	25
Fig. 17	Analogue Output, Setpoint	25
Fig. 18	Numerical entries	26
Fig. 19	Alarm List	26
Fig. 20	Active Alarms	27
Fig. 21	Time Program	27
Fig. 22	Weekday Time Program	28
Fig. 23	Example of Time Program	29
Fig. 24	Time Program Entry	29
Fig. 25	Special Day Time Program	30
Fig. 26	Send Time Program	31
Fig. 27	Calendar	32
Fig. 28	Calendar Entry	32
Fig. 29	Send Calendar	33
Fig. 30	HDB Configuration	34
Fig. 31	Value Range, Y-scale	34
Fig. 32	Time Axis, X-scale	35
Fig. 33	HDB Ansicht	35
Fig. 34	HDB Configuration, Example	36
Fig. 35	HDB View, Example	37
Fig. 36	Settings	39
Fig. 37	Calibration	40
Fig. 38	Calibration Points	40
Fig. 39	Calibration Error	41
Fig. 40	Calibration Test	41
Fig. 41	Reboot	41
Fig. 42	System Info	42
Fig. 43	Other Settings	43
Fig. 44	Contrast Setting	43
Fig. 45	Clock Setting	44
Fig. 46	Profile	45
Fig. 47	Password Time-out	46

List of figures

Fig. 48	Error Message for Access Rights	46
Fig. 49	New User	47
Fig. 50	Enter User Name	47
Fig. 51	User Password	48
Fig. 52	User Group	48
Fig. 53	New User List	49
Fig. 54	Filter	50
Fig. 55	Filter Definition - Example	50
Fig. 56	Reboot to Activate Filters	50

Index

<i>A</i>	
Abbreviations	7
Accessories	7
Access rights	16
Alarms	26
Application list	21
Area of use	5
 <i>C</i>	
Calendar	27
Calibration	37
CASE Touch-panel Configurator	13
Clock	42
Configuration	13
Connections	12
 <i>D</i>	
Data points	23
Datasheet	7
Delete user profile	47
Display parameters	41
 <i>F</i>	
Filters	47
Fitting instructions	7
 <i>H</i>	
Historical data	33
 <i>I</i>	
Installation	11
 <i>L</i>	
LED-Anzeigen	10
LED indicators	9
Light-emitting diodes	12
Login	16
Logout	16
 <i>M</i>	
Main menu	15
Materialdeclaration	7
Monochrome display	5
 <i>O</i>	
Operation	9

Index

<i>P</i>	
Password	17
<i>S</i>	
Safety information	5
Software	7
Start screen	15
<i>T</i>	
Time programs	27
Training	7
<i>U</i>	
User Interface	9